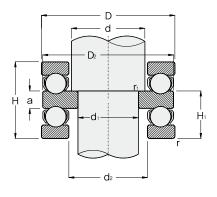
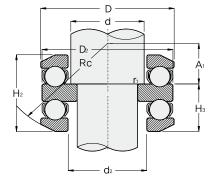
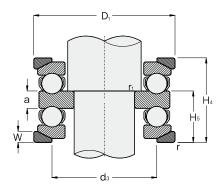
Double Direction







Double Direction(A)

Spherical Housing Washer(B)

Spherical Housing Washer and Seating Ring(C)

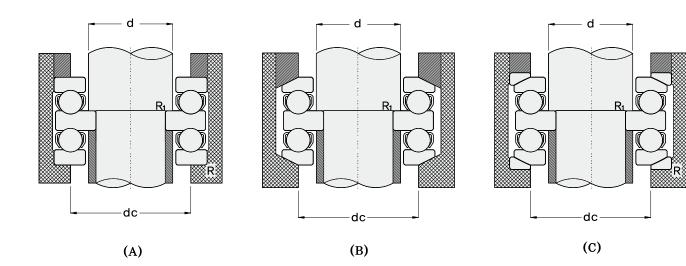
26

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www.wbc-bearing.co.kr

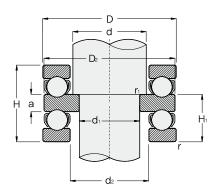
		Di	mens	ions(m	m)			Bea	aring Seri	ies	Load Ra	ating(Kgf)	Limiting Speed(rpm)		
d	d₁	D	Ι	H2	H ₄	r	r ₁	(A)	(B)	(C)	С	Со	Grease	Oil	
15	10	32	22	24.6	28	1	0.5	52202	54202	54202 U	1,710	2,100	5,000	7,500	
20	15	40	26	27.4	32	1	0.5	52204	54204	54204 U	2,290	3,200	4,000	6,000	
25	20	47	28	31.4	36	1	0.5	52205	54205	54205 U	2,860	4,250	3,800	5,600	
	20	52	34	37.6	42	1.5	0.5	52305	54305	54305 U	3,650	5,200	3,200	4,800	
	15	60	45	49.8	55	1.5	1	52405	54405	54405 U	5,700	7,550	2,600	4,000	
30	25	52	29	32.6	37	1	0.5	52206	54206	54206 U	3,000	4,900	3,400	5,300	
	25	60	38	41.2	46	1.5	0.5	52306	54306	54306 U	4,400	6,650	2,800	4,200	
	20	70	52	56.2	62	1.5	1	52406	54406	54406 U	7,450	10,600	2,200	3,400	
35	30	62	34	37.8	42	1.5	0.5	52207	54207	54207 U	4,050	6,600	3,000	4,500	
	30	68	44	47.2	52	1.5	0.5	52307	54307	54307 U	5,700	8,850	2,500	3,700	
	25	80	59	63	69	2	1	52407	54407	54407 U	8,950	13,100	2,000	3,000	
40	30	68	36	38.6	44	1.5	1	52208	54208	54208 U	4,850	8,300	2,800	4,200	
	30	78	49	54	59	1.5	1	52308	54308	54308 U	7,100	11,400	2,200	3,300	
	30	90	65	69.4	77	2	1	52408	54408	54408 U	10,500	15,800	1,700	2,600	
45	35	73	37	39.6	45	1.5	1	52209	54209	54209 U	4,900	8,850	2,600	4,000	
	35	85	52	56.2	62	1.5	1	52309	54309	54309 U	8,200	13,800	2,000	3,000	
	35	100	72	78.8	86	2	1	52409	54409	54409 U	13,000	20,700	1,600	2,400	
50	40	78	39	42	47	1.5	1	52210	54210	54210 U	5,000	9,400	2,400	3,600	
	40	95	58	64.6	70	2	1	52310	54310	54310 U	9,950	17,000	1,800	2,800	
	40	110	78	83.2	92	2.5	1	52410	54410	54410 U	15,000	24,300	1,400	2,200	
55	45	90	45	49.6	55	1.5	1	52211	54211	54211 U	7,150	13,400	2,100	3,200	
	45	105	64	72.6	78	2	1	52311	54311	54311 U	11,800	20,600	1,600	2,400	
	45	120	87	92	101	2.5	1	52411	54411	54411 U	18,500	29,500	1,300	1,900	
60	50	95	46	50	56	1.5	1	52212	54212	54212 U	7,300	14,200	2,000	3,000	
	50	110	64	70.6	78	2	1	52312	54312	54312 U	12,100	22,200	1,600	2,400	
	50	130	93	99	107	2.5	1	52412	54412	54412 U	20,600	33,500	1,200	1,800	
65	55	100	47	50.4	57	1.5	1	52213	54213	54213 U	7,700	15,900	1,900	2,800	
	55	115	65	71.8	79	2	1	52313	54313	54313 U	12,500	23,800	1,600	2,300	
	50	140	101	109.4	119	3	1.5	52413	54413	54413 U	23,800	41,500	1,100	1,600	
70	55	105	47	50.6	57	1.5	1.5	52214	54214	54214 U	7,550	15,900	1,900	2,800	
	55	125	72	80.4	88	2	1.5	52314	54314	54314 U	14,000	26,400	1,400	2,000	
	55	150	107	114.2	125	3	1.5	52414	54414	54414 U	25,700	46,500	1,000	1,500	

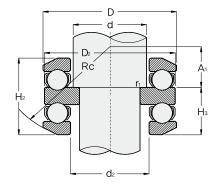


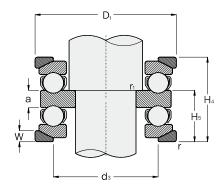


		D	imens	sions(ı	mm)							ent and		w	eight(k	g)	Bearing
D ₂	d₂	d₃	D ₁	H ₁	Нз	Н₅	а	w	A ₁	Rc	dc (min)	R (max)	R ₁ (max)	(A)	(B)	(C)	No
32	17	24	35	13.5	14.8	16.5	5	4	10.5	28	24	0.6	0.3	0.085	0.09	0.12	52202
40	22	30	42	16	16.7	19	6	5	16	36	30	0.6	0.3	0.15	0.15	0.20	52204
47	27	36	50	17.5	19.2	21.5	7	5.5	16.5	40	36	0.6	0.3	0.23	0.24	0.32	52205
52	27	38	55	21	22.8	25	8	6	18	45	38	1	0.3	0.33	0.34	0.43	52305
60	27	42	62	28	30.4	33	11	8	15	50	42	1	0.6	0.63	0.66	0.80	52405
52	32	42	55	18	19.8	22	7	5.5	20	45	42	0.6	0.3	0.28	0.29	0.40	52206
60	32	45	62	23.5	25.1	27.5	9	7	19.5	50	45	1	0.3	0.49	0.49	0.60	52306
70	32	50	75	32	34.1	37	12	9	16	56	50	1	0.6	1.00	0.99	1.25	52406
62	37	48	65	21	22.9	25	8	7	21	50	48	1	0.3	0.42	0.43	0.51	52207
68	37	52	72	27	28.6	31	10	7.5	21	56	52	1	0.3	0.71	0.73	0.90	52307
80	37	58	85	36.5	38.5	41.5	14	10	18.5	64	58	1	0.6	1.45	1.45	1.80	52407
68	42	55	72	22.5	23.8	26.5	9	7	25	56	55	1	0.6	0.54	0.54	0.71	52208
78	42	60	82	30.5	33	35.5	12	8.5	23.5	64	60	1	0.6	1.05	1.10	1.35	52308
90	42	65	95	40	42.2	46	15	12	22	72	65	1	0.6	2.05	2.05	2.55	52408
73	47	60	78	23	24.3	27	9	7.5	23	56	60	1	0.6	0.62	0.61	0.81	52209
85	47	65	90	32	34.1	37	12	10	21	64	65	1	0.6	1.30	1.30	1.60	52309
100	47	72	105	44.5	47.9	51.5	17	12.5	23.5	80	72	1	0.6	2.70	2.80	3.40	52409
78	52	62	82	24	25.5	28	9	7.5	30.5	64	62	1	0.6	0.71	0.69	0.93	52210
95	52	72	100	36	39.3	42	14	11	23	72	72	1	0.6	1.85	1.90	2.35	52310
110	52	80	115	48	50.6	55	18	14	30	90	80	1.5	0.6	3.55	3.80	4.40	52410
90	57	72	95	27.5	29.8	32.5	10	9	32.5	72	72	1	0.6	1.10	1.15	1.50	52211
105	57	80	110	39.5	43.8	46.5	15	11.5	25.5	80	80	1	0.6	2.50	2.65	3.20	52311
120	57	88	125	53.5	56	60.5	20	15.5	22.5	90	88	1.5	0.6	4.70	4.55	5.60	52411
95	62	78	100	28	30	33	10	9	30.5	72	78	1	0.6	1.25	1.25	1.65	52212
110	62	85	115	39.5	42.8	46.5	15	11.5	36.5	90	85	1	0.6	2.70	2.75	3.35	52312
130	62	95	135	57	60	64	21	16	28	100	95	1.5	0.6	6.00	5.80	7.20	52412
110	67	82	105	28.5	30.2	33.5	10	9	38.5	80	82	1	0.6	1.35	1.35	1.75	52213
115	67	90	120	40	43.4	47	15	12.5	34.5	90	90	1	0.6	2.90	3.00	3.65	52313
140	68	100	145	62	66.2	71	23	17.5	34	112	100	2	1	7.50	7.50	9.15	52413
105	72	88	110	28.5	30.3	33.5	10	9	36.5	80	88	1	1	1.50	1.45	1 90	52214
125	72	98	130	44	48.2	52	16	13	39	100	98	1	1	3.90	4.00	4 80	52314
150	73	110	155	65.5	69.1	74.5	24	19.5	28.5	112	110	2	1	9.00	8.85	11 0	52414

Double Direction







Double Direction(A)

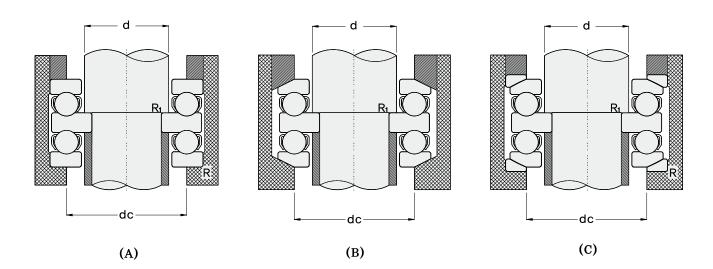
Spherical Housing Washer(B)

Spherical Housing Washer and Seating Ring(C)

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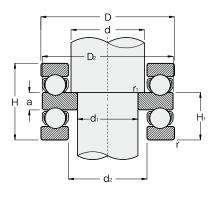
		Di	imens	ions(m	m)			Bea	aring Seri	es	Load Ra	iting(Kgf)	Limiting Speed(rpm)		
d	d₁	D	Н	H2	H ₄	r	r ₁	(A)	(B)	(C)	С	Со	Grease	Oil	
75	60	110	47	49.6	57	1.5	1.5	52215	54215	54215 U	7,950	17,600	1,800	2,700	
	60	135	79	87.2	95	2.5	1.5	52315	54315	54315 U	16,200	31,000	1,300	1,900	
	60	160	115	123	135	3	1.5	52415	54415	54415 U	25,900	47,500	950	1,400	
80	65	115	48	51	58	1.5	1.5	52216	54216	54216 U	8,050	18,400	1,700	2,600	
	65	140	79	86.2	95	2.5	1.5	52316	54316	54316 U	16,700	33,000	1,200	1,800	
	65	170	120	128.4	140	3.5	1.5	52416	54416	54416 U	27,800	52,500	900	1,400	
85	70	125	55	59.2	67	1.5	1.5	52217	54217	54217 U	9,800	22,300	1,600	2,400	
	70	150	87	95.2	105	2.5	1.5	52317	54317	54317 U	21,100	41,000	1,100	1,700	
	65	180	128	138	150	3.5	2	52417 X	54417 X	54417 XU	31,500	63,500	850	1,300	
90	75	135	62	69	76	2	1.5	52218	54218	54218 U	11,600	26,200	1,400	2,200	
	75	155	88	97.2	106	2.5	1.5	52318	54318	54318 U	21,900	44,000	1,100	1,600	
	70	190	135	143.4	157	3.5	2	52418 X	54418 X	54418 XU	33,500	69,500	800	1,200	
100	85	150	67	72.8	81	2	1.5	52220	54220	54220 U	13,700	31,500	1,300	1,900	
	85	170	97	105.4	115	2.5	1.5	52320	54320	54320 U	24,300	50,500	1,000	1,500	
	80	210	150	160	176	4	2	52420 X	54420 X	54420 XU	38,000	83,000	710	1,100	
110	95 95 90	160 190 230	67 110 166	71.4 118.4	81 128 —	2 3 4	1.5 1.5 2	52222 52322 52422 X	54222 54322 X —	54222 U 54322 XU -	13,900 28,800 42,000	33,500 63,500 97,500	1,200 900 630	1,900 1,300 950	
120	100 100 95	170 210 250	68 123 177	71.6 131.2	82 143 —	2 3.5 5	2 2 2.5	52224 52324 X 52424 X	54224 54324 X —	54224 U 54324 XU -	14,400 33,500 52,500	36,500 78,500 130,000	1,200 800 600	1,800 1,200 850	
130	110	190	80	85.8	96	2.5	2	52226 X	54226 X	54226 XU	18,700	46,500	1,100	1,600	
	110	225	130	-	-	3.5	2	52326 X	-	-	35,500	86,500	750	1,100	
	100	270	192	-	-	5	3	52426 X	-	-	53,500	134,000	530	800	
140	120	200	81	86.2	99	2.5	2	52228 X	54228 X	54228 XU	18,900	48,500	1,000	1,500	
	120	240	140	-	-	3.5	2	52328 X	-	-	37,500	95,000	670	1,000	
	110	280	196	-	-	5	3	52428 X	-	-	56,500	148,000	530	750	
150	130	215	89	95.6	109	2.5	2	52230 X	54230 X	54230 XU	24,300	62,000	950	1,400	
	130	250	140	-	_	3.5	2	52330 X	-	-	39,000	101,000	670	1,000	
	120	300	209	-	_	5	3	52430 X	-	-	63,000	170,000	480	710	
160	140	225	90	97.4	110	2.5	2	52232 X	54232 X	54232 XU	25,400	68,000	900	1,300	
	140	270	153	-	_	4	2	52332 X	-	-	48,500	133,000	600	900	
	130	320	226	-	_	6	3	52432 X	-	-	66,000	187,000	450	670	

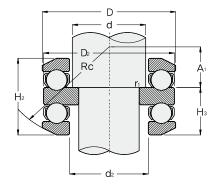


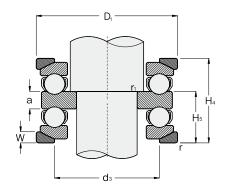


		Dir	nensi	ons(m	m)							ent and		,	Weight(k	g)	Bearing
D ₂	d₂	d₃	D ₁	Н1	Нз	H₅	а	w	A ₁	Rc	dc (min)	R (max)	R ₁ (max)	(A)	(B)	(c)	No
110	77	92	115	28.5	29.8	33.5	10	9.5	47.5	90	92	1	1	1.55	1.55	2.05	52215
135	77	105	140	48.5	52.6	56.5	18	15	32.5	100	105	1.5	1	4.85	5.00	6.10	52315
160	78	115	165	70.5	74.5	80.5	26	21	36.5	125	115	2	1	11.0	11.0	13.5	52415
115	82	98	120	29	30.5	34	10	10	45	90	98	1	1	1.70	1.65	2.15	52216
140	82	110	145	48.5	52.1	56.5	18	15	45.5	112	110	1.5	1	5.05	5.20	6.40	52316
170	83	125	175	73.5	77.7	83.5	27	22	30.5	125	125	2	1	13.0	13.5	16.0	52416
125	88	105	130	33.5	35.6	39.5	12	11	49.5	100	105	1	1	2.35	2.30	3.00	52217
150	88	115	155	53	57.1	62	19	17.5	39	112	115	1.5	1	6.45	6.40	8.05	52317
179.5	88	130	185	78.5	83.5	89.5	29	23	40.5	140	130	2	1	16.6	16.0	19.0	52417 X
135	93	110	140	38	41.5	45	14	13.5	42	100	110	1	1	3.20	3.25	4 20	52218
155	93	120	160	53.5	58.1	62.5	19	18	36.5	112	120	1.5	1	6.60	6.75	8 45	52318
189.5	93	140	195	82.5	86.7	93.5	30	25.5	34.5	140	140	2	1	18.2	18.5	22 5	52418 X
150	103	125	155	41	43.9	48	15	14	49	112	125	1	1	4.30	4.25	5.4	52220
170	103	135	175	59	63.2	68	21	18	42	125	135	1.5	1	8.90	8.95	10.5	52320
209.5	103	155	220	91.5	96.5	104.5	33	27	43.5	160	155	2.5	1	26.5	29.0	32.0	52420 X
160 189.5 229	113 113 113	135 150 —	165 195 —	41 67 101.5	43.2 71.2	48 76 —	15 24 37	14 20.5	62 47 —	125 140 —	135 150 159	1 2 2.5	1 1 1	4.50 13.0 35.0	4.25 13.5 —	5.35 16.0 —	52222 52322 X 52422 X
170 209.5 249	123 123 123	145 165 —	175 220 —	41.5 75 108.5	43.3 79.1 —	48.5 85 —	15 27 40	15 22 —	58.5 58 —	125 160 —	145 165 174	1 2 3	1 1 1.5	5 25 16 5 44 5	5.15 19.0 —	6.45 23.0	52224 52324 X 52424 X
189.5	133	160	195	49	51.9	57	18	17	63	140	160	1.5	1	7.75	7.50	9.30	52226 X
224	134	_	—	80	_	—	30	_	_	-	169	2	1	21.5	<u>–</u>	-	52326 X
269	134	_	—	117	_	—	42	_	_	-	188	3	2	56.5	–	-	52426 X
199.5	143	170	210	49.5	52.1	58.5	18	17	83.5	160	170	1.5	1	8.35	8.10	10.5	52228 X
239	144	-	_	85.5	—	-	31	_	-	-	181	2	1	28.0	-	-	52328 X
279	144	-	_	120	—	-	44	_	-	-	198	3	2	61.0	-	-	52428 X
214.5	153	180	225	54.5	57.8	64.5	20	20.5	74.5	160	180	1.5	1	10.5	10.0	13.5	52230 X
249	154	—	_	85.5	-	_	31	-	—	-	191	2	1	29.0	-	-	52330 X
299	154	—	_	127.5	-	_	46	-	—	-	212	3	2	74.0	-	-	52430 X
224.5	163	190	235	55	58.7	65	20	21	70	160	190	1.5	1	11.0	10.5	14.0	52232 X
269	164	-	-	93	-	-	33	-	-	-	205	2.5	1	38.0	—	_	52332 X
319	164	-	-	138	-	-	50	-	-	-	226	4	2	90.5	—	_	52432 X

Double Direction







Double Direction(A)

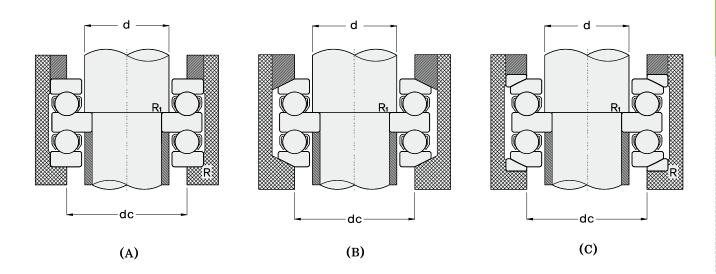
Spherical Housing Washer(B)

Spherical Housing Washer and Seating Ring(C)

		Dime	ensior	ns(mm	1)			Bea	aring Se	ries	Load Ra	iting(Kgf)	Limiting Speed(rpm)		
d	d₁	D	Н	H 2	H 4	r	r ₁	(A)	(B)	(C)	С	Со	Grease	Oil	
170	150 150 135	240 280 340	97 153 236	104.4 _ _	117 — —	2.5 4 6	2 2 3.5	52234 X 52334 X 52434 X	54234 X - -	54234 XU - -	28,500 47,500 73,000	77,000 133,000 210,000	850 600 430	1,200 900 630	
180	150 150 140	250 300 360	98 165 245	102.4 _ _	118 _ _	2.5 4 6	3 3 4	52236 X 52336 X 52436 X	54236 X - -	54236 XU - -	28,900 49,000 76,500	80,500 142,000 230,000	800 560 400	1,200 800 600	
190	160 160	270 320	109 183	116.4	131 _	3 5	3 3	52238 X 52338 X	542 <u>3</u> 8 X	54238 XU	32,500 56,000	93,500 165,000	750 500	1,100 750	
200	170 170	280 340	109 192	115.6	133	3 5	3 3	52240 X 52340 X	542 <u>4</u> 0 X	54240 XU	32,500 61,500	93,500 188,000	710 480	1,100 710	
220	190	300	110	115.2	134	3	3	52244 X	54244 X	54244 XU	33,500	102,000	710	1,000	

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		D	imens	sions(ı	nm)							ent and		W	g)	Bearing	
D ₂	d₂	d₃	D ₁	H ₁	Нз	Н₅	а	w	A ₁	Rc	dc (min)	R (max)	R ₁ (max)	(A)	(B)	(C)	No
239.5 279 339	173 174 174	200 _ _	250 _ _	59 93 143	62.7 - -	69 - -	21 33 50	21.5 _ _	87 _ _	180 _ _	200 215 240	1.5 2.5 4	1 1 2	14.0 39.5 108	12.5 - -	16.5 - -	52234X 52334X 52434X
249 299 359	183 184 184	210 _ _	260 _ _	59.5 101 148.5	61.7 _ _	69.5 _ _	21 37 52	21.5 _ _	108.5 — —	200 _ _	210 229 254	1.5 2.5 4	2 2 2 <u>.</u> 5	15.0 50.5 126	16.0 — —	19.5 — —	52236X 52336X 52436X
269 319	194 195	230 —	280 —	66.5 111.5	70.2 _	77.5 —	24 40	23 _	93.5	200 _	230 244	2 3	2 2	21.5 65.5	20.0	25.5 _	52238X 52338X
279 339	204 205	240 _	290 —	66.5 117	69.8 -	78.5 -	24 42	23 _	120.5	225 _	240 258	2 3	2 2	23.0 77.5	21.0 —	27.5 —	52240X 52340X
299	224	260	310	67	69.6	79	24	25	114	225	260	2	2	24.0	23.0	29.5	52244X